

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 April 2004 (08.04.2004)

PCT

(10) International Publication Number
WO 2004/028887 A1

(51) International Patent Classification⁷: **B62D 53/08,**
53/12

(21) International Application Number:
PCT/ZA2003/000141

(22) International Filing Date:
26 September 2003 (26.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2002/7727 26 September 2002 (26.09.2002) ZA

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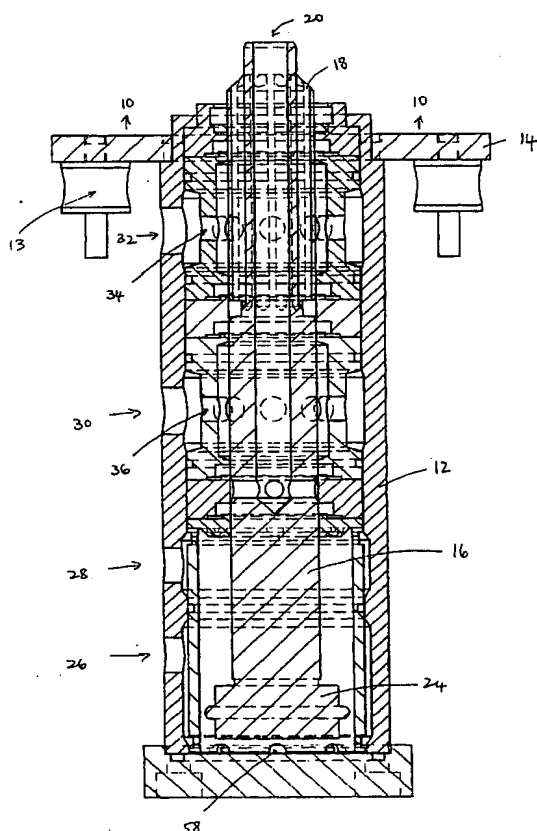
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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
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TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: PNEUMATIC CONNECTOR ARRANGEMENT



(57) Abstract: ABSTRACT A pneumatic connector arrangement for a horse and trailer includes a piston (16) movable within a housing (12) to engage the base of the trailer kingpin (22) which is modified to include discrete passages (40, 42) for conveying permanent air supply and service line air to the trailer pneumatic system. The piston (16) has similar discrete passages (18, 20) which link to the kingpin passages upon link-up of the horse and trailer. The air supplies enter the piston passages by means of ports (30, 32).

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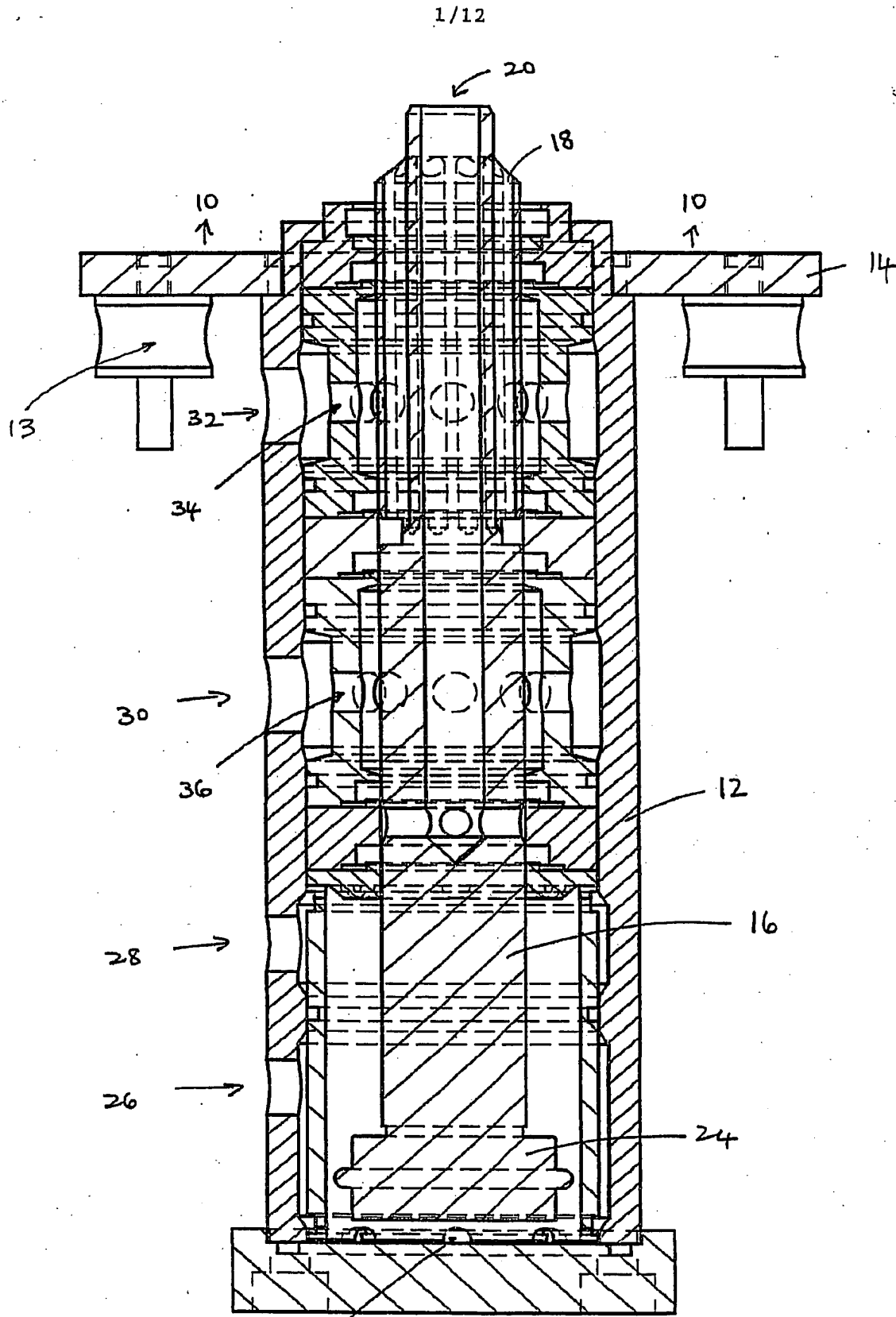


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58 FIGURE 1.

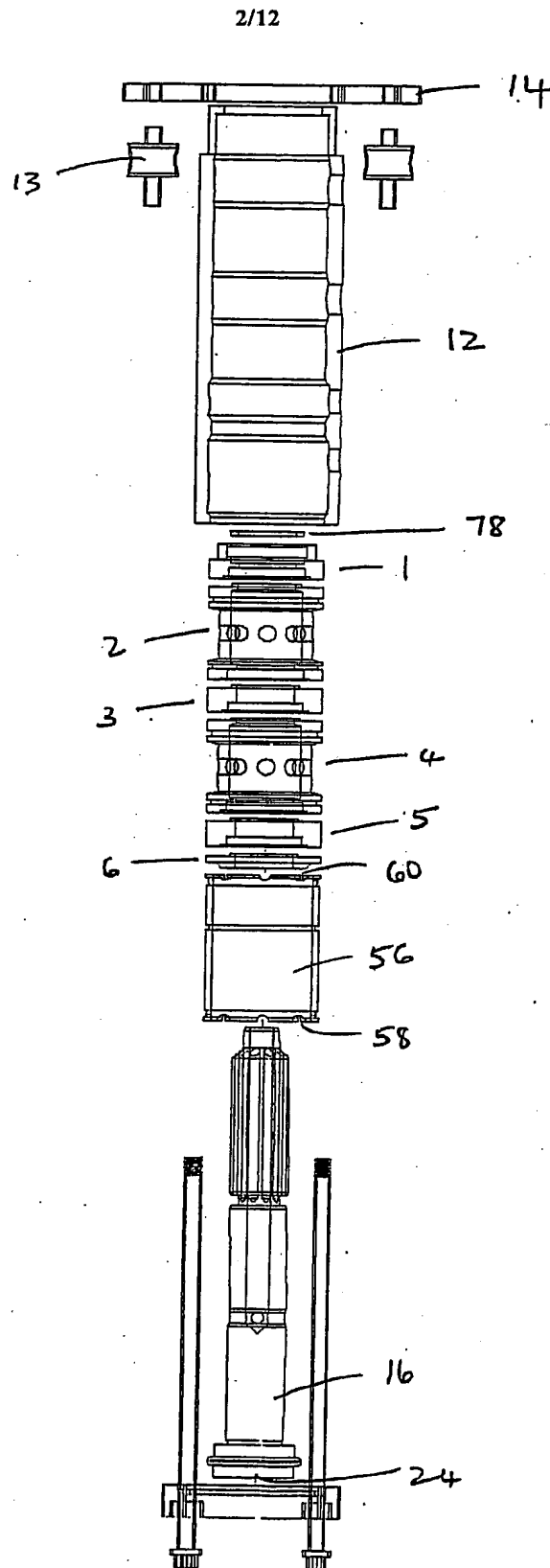


FIGURE 2.

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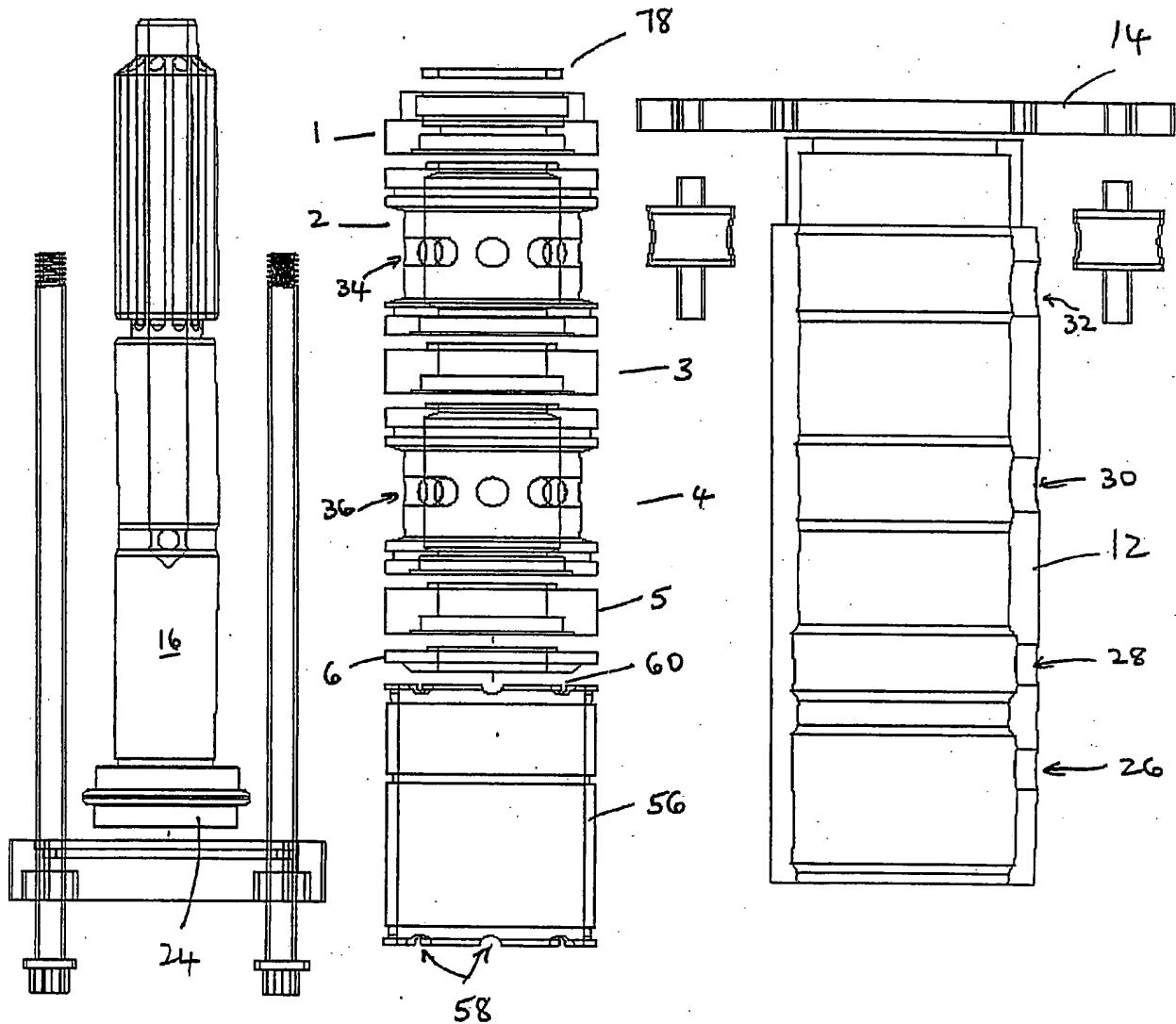


FIGURE 3.

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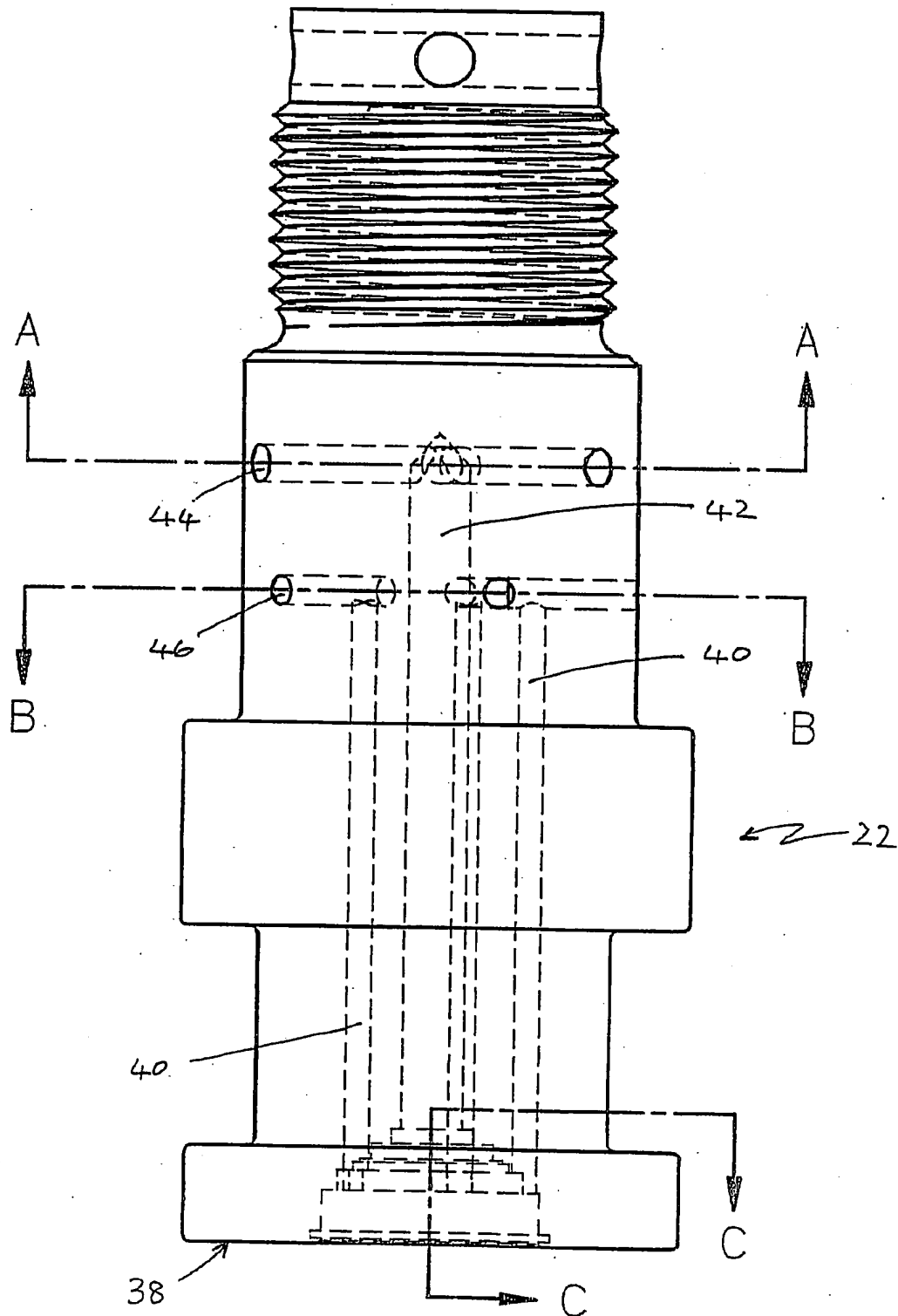


FIGURE 4.

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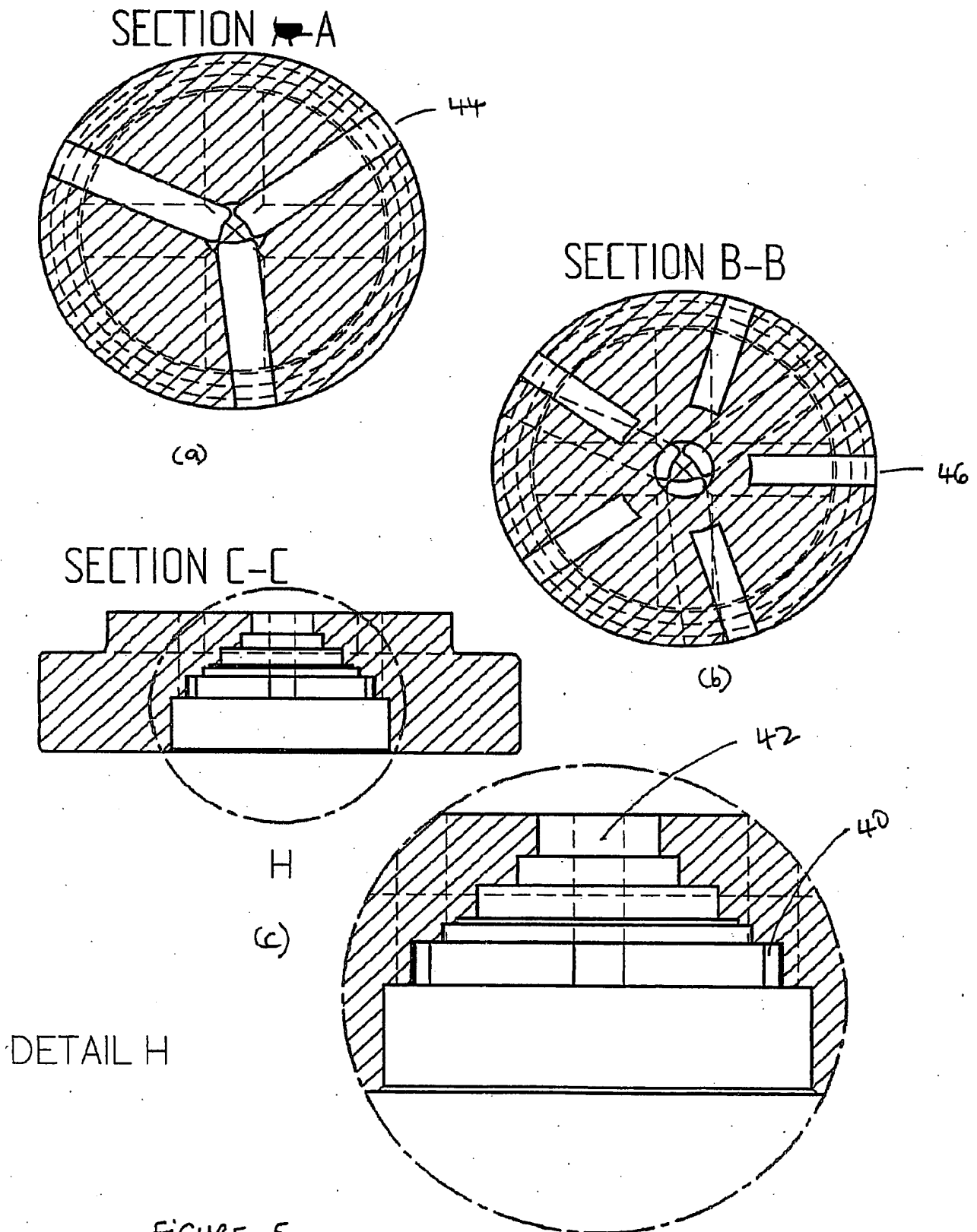


FIGURE 5.

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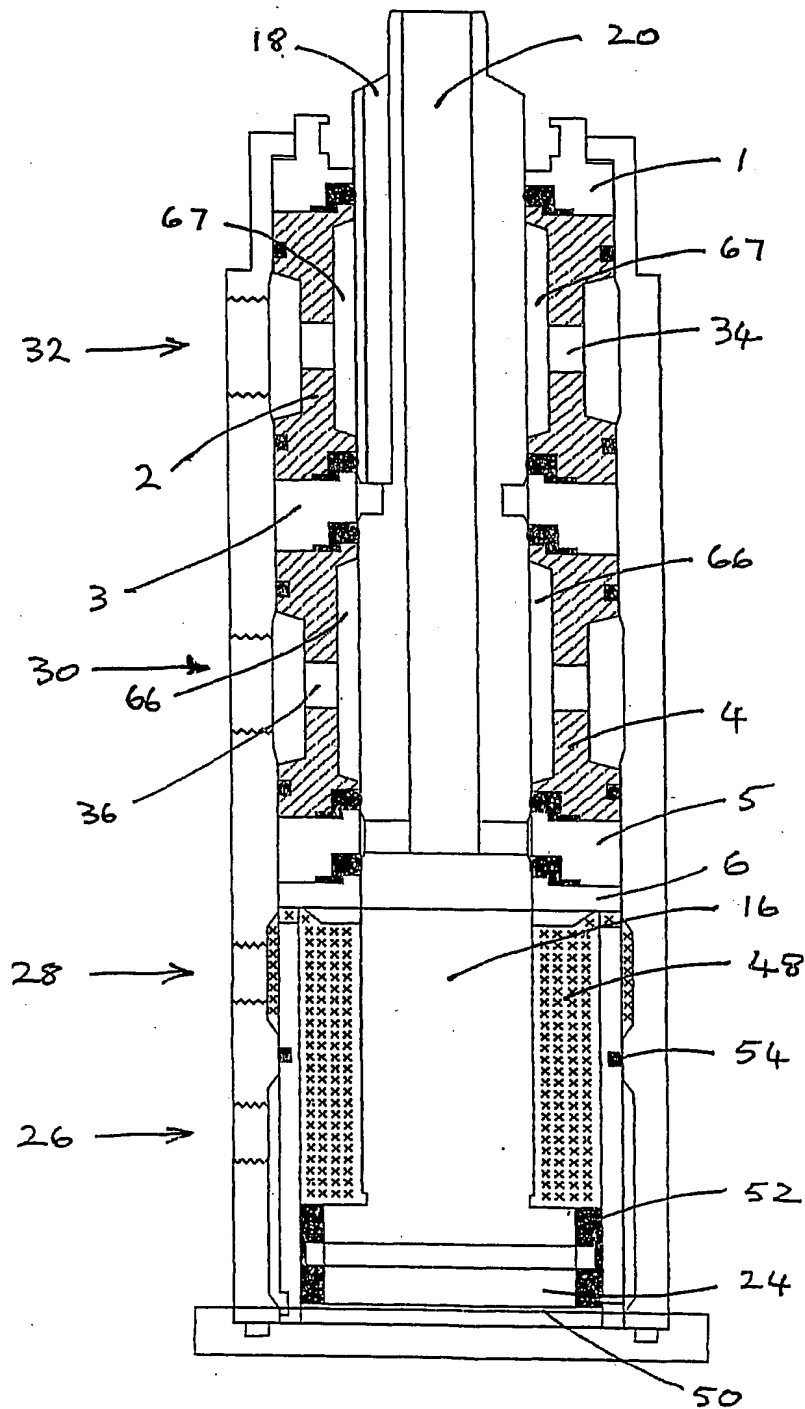


FIGURE 6.

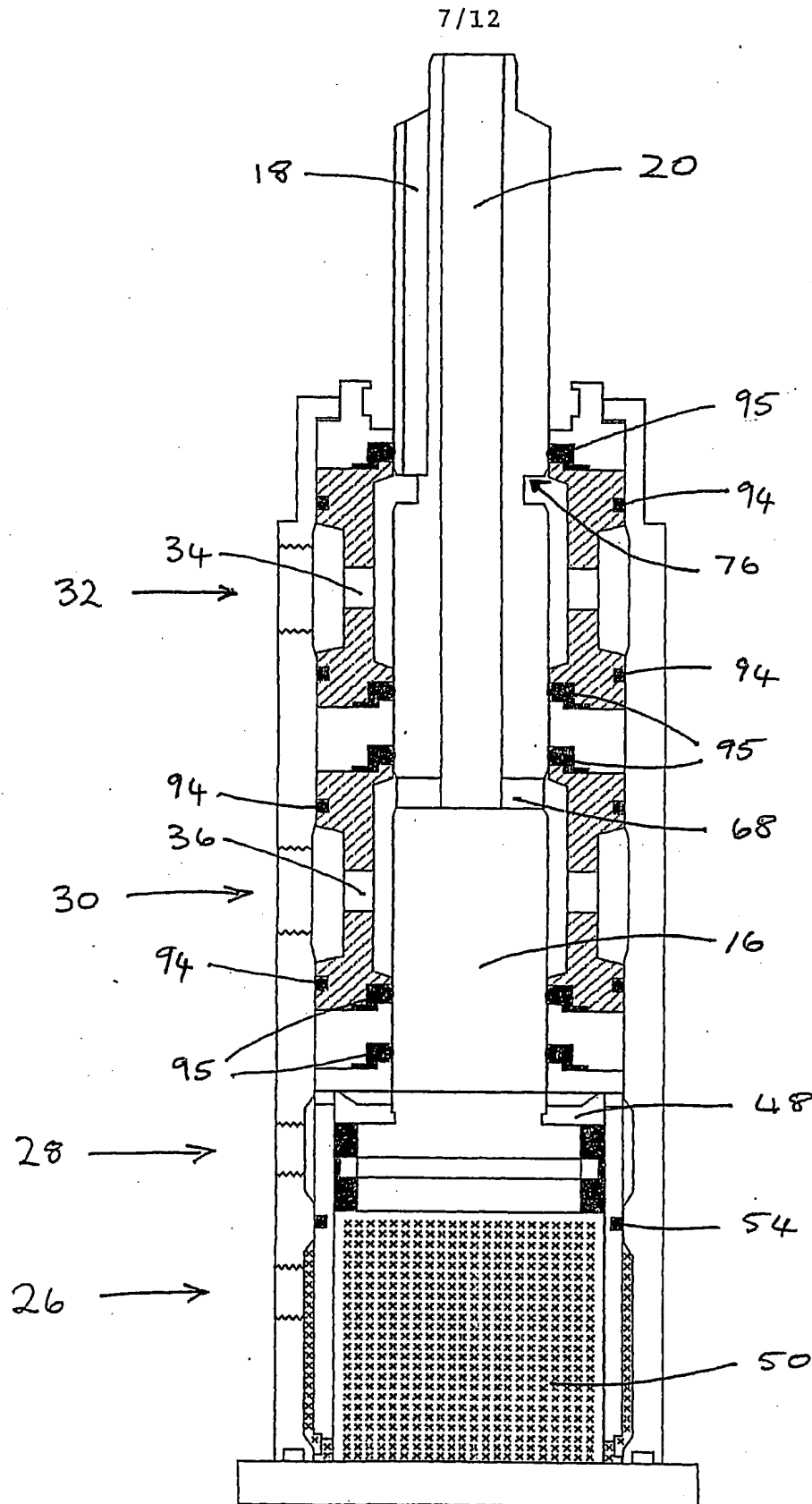


FIGURE 7

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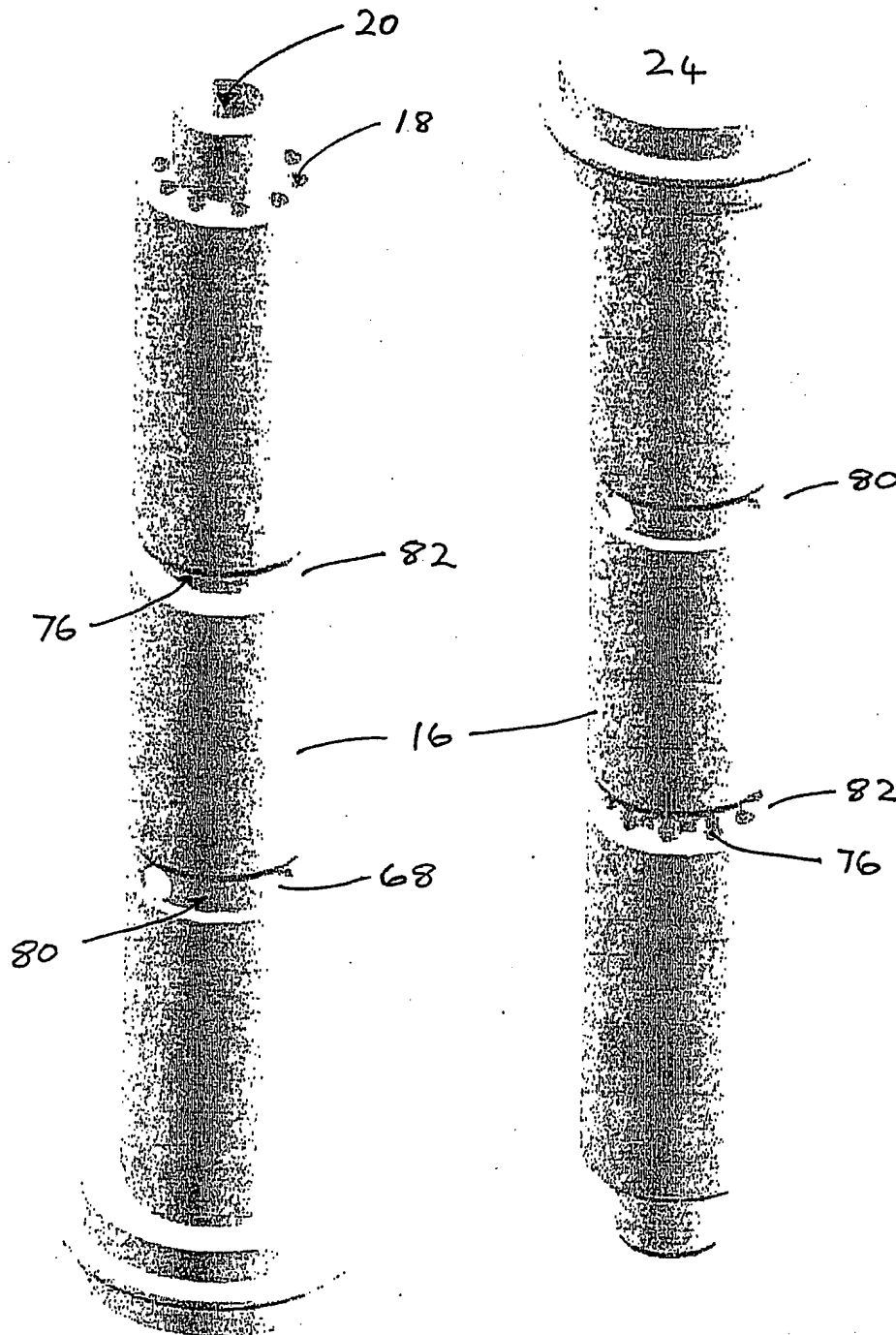
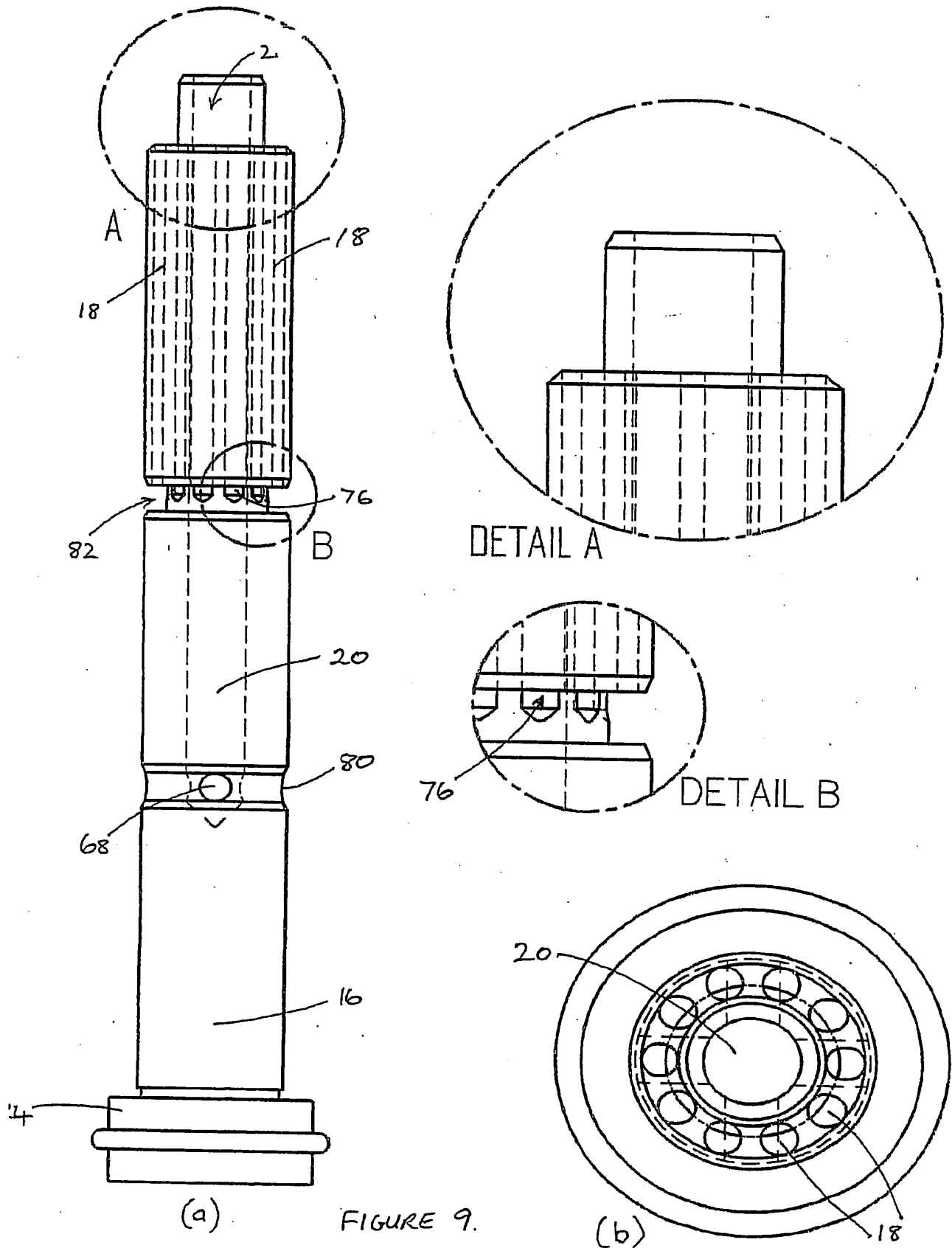


FIGURE 8

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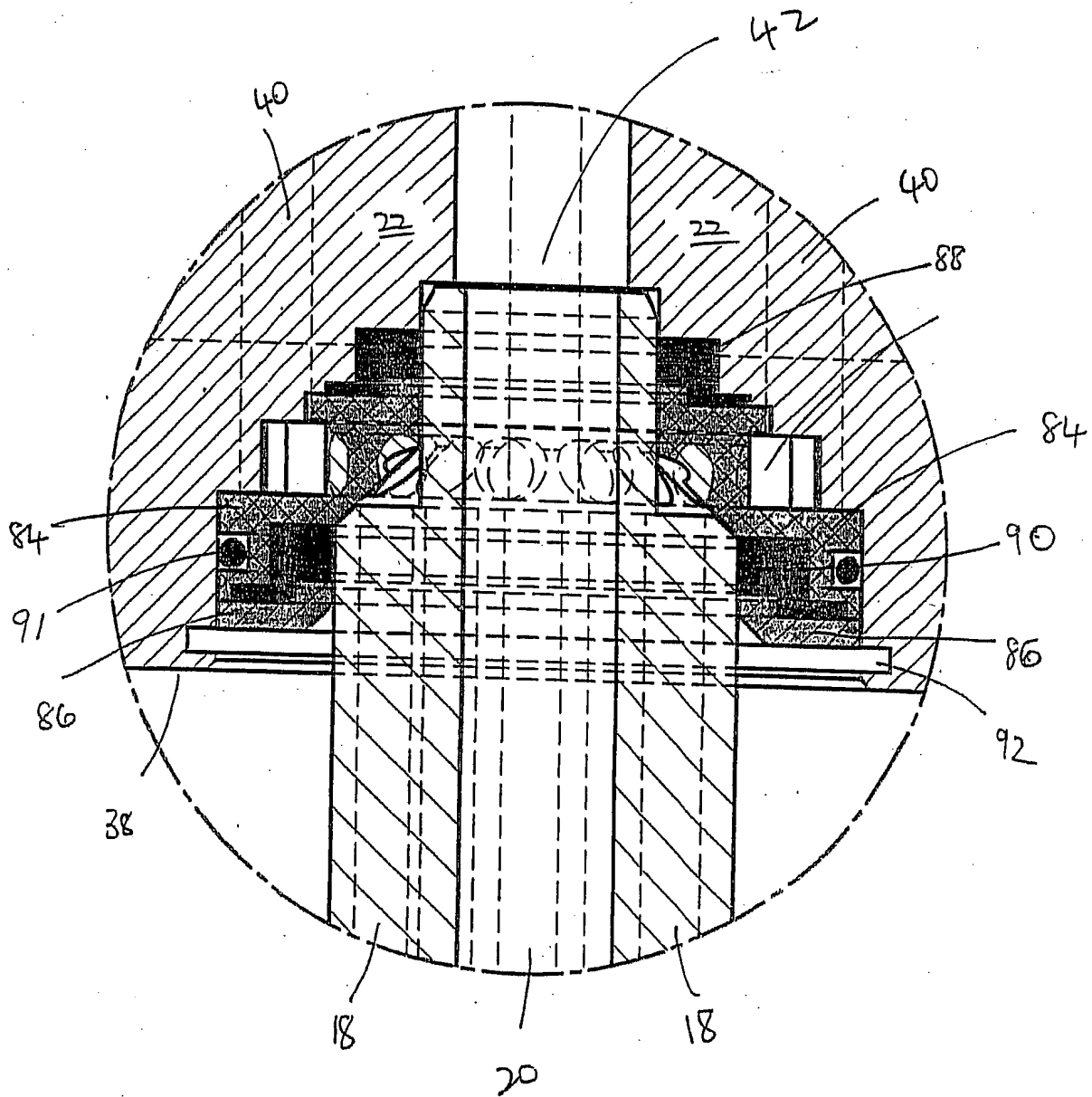


FIGURE 10.

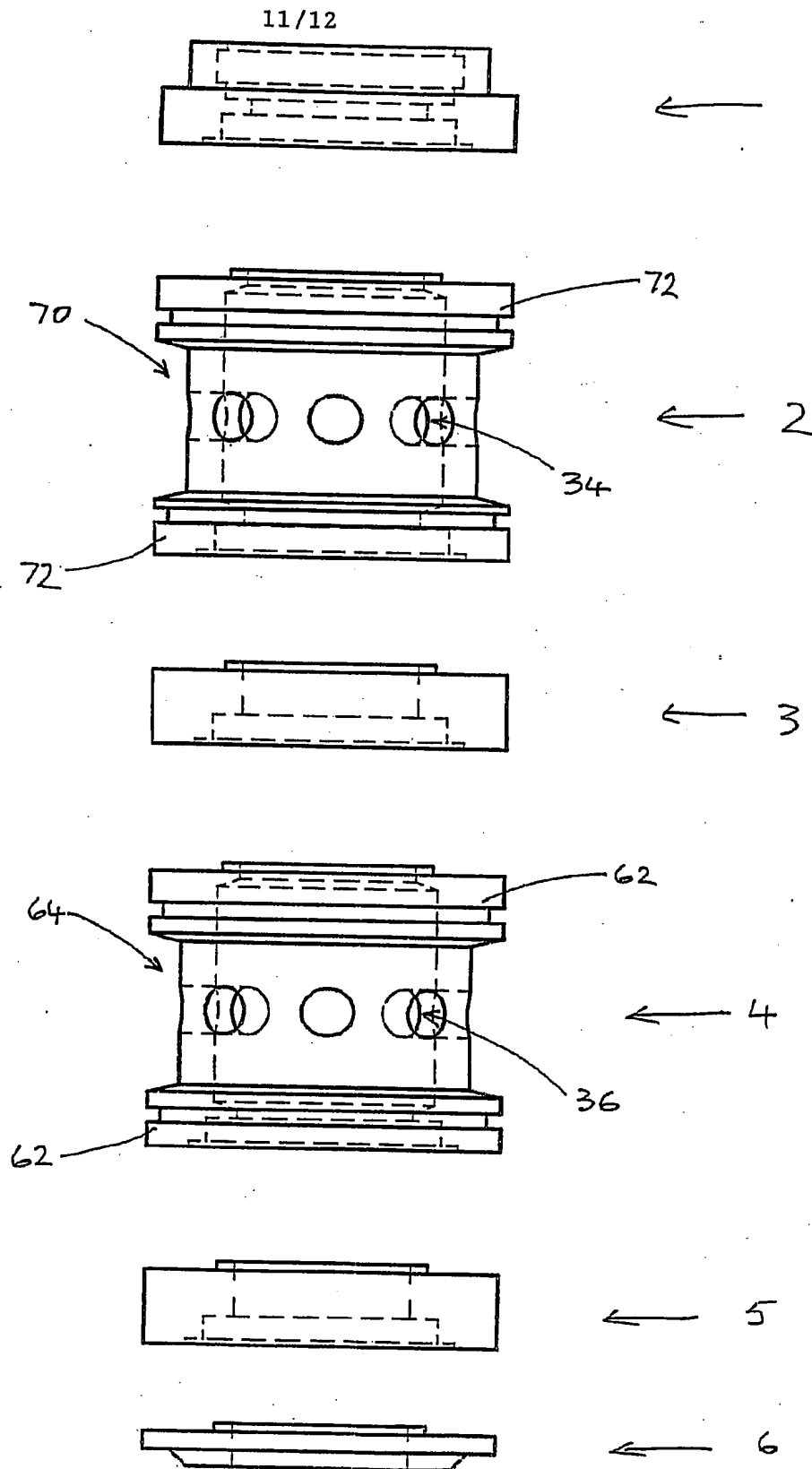
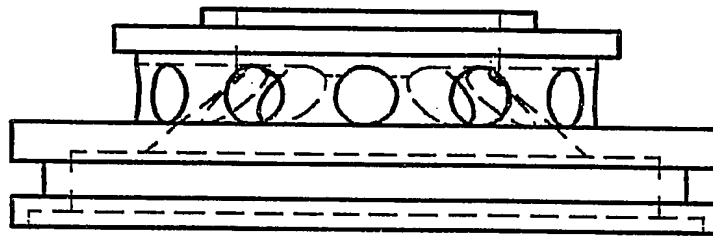
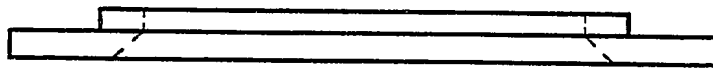


FIGURE 11

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FIGURE 12

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B62D53/08 B62D53/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B62D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 053 614 A (EATON WILFRED A ET AL) 8 September 1936 (1936-09-08) the whole document	1-3, 13, 14
X	US 3 181 888 A (PYRE GEORGE J ET AL) 4 May 1965 (1965-05-04) the whole document	1, 4

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Date of the actual completion of the international search

30 January 2004

Date of mailing of the international search report

11/02/2004

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/ZA 03/00141

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2053614	A	08-09-1936	NONE	
US 3181888	A	04-05-1965	NONE	